Hurricane Ophelia Wind Distribution

Landfall Has Occurred

For Official Use Only!

Most Probable Landfall Wind Distribution

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Wind Fields

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Debris Model

Landfall Has Occurred

For Official Use Only!

Most Probable Landfall Debris Model Results

North Carolina – 392,000 yd^3

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

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US Army Corps of Engineers

Hurricane Ophelia Debris Model

Generated By:
Terry Siemsen, LRL 0700 EDT 9/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Debris Model

Landfall Has Occurred

For Official Use Only!

State	County	Cubic Yards per County
North Carolina		
	Brunswick	24,000
	Carteret	124,000
	Craven	27,000
	Dare	1,000
	Hyde	1,000
	New Hanover	174,000
	Onslow	28,000
	Pamlico	1,000
	Pender	12,000
TOTAL		392,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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US Army Corps of Engineers

Hurricane Ophelia Debris Model

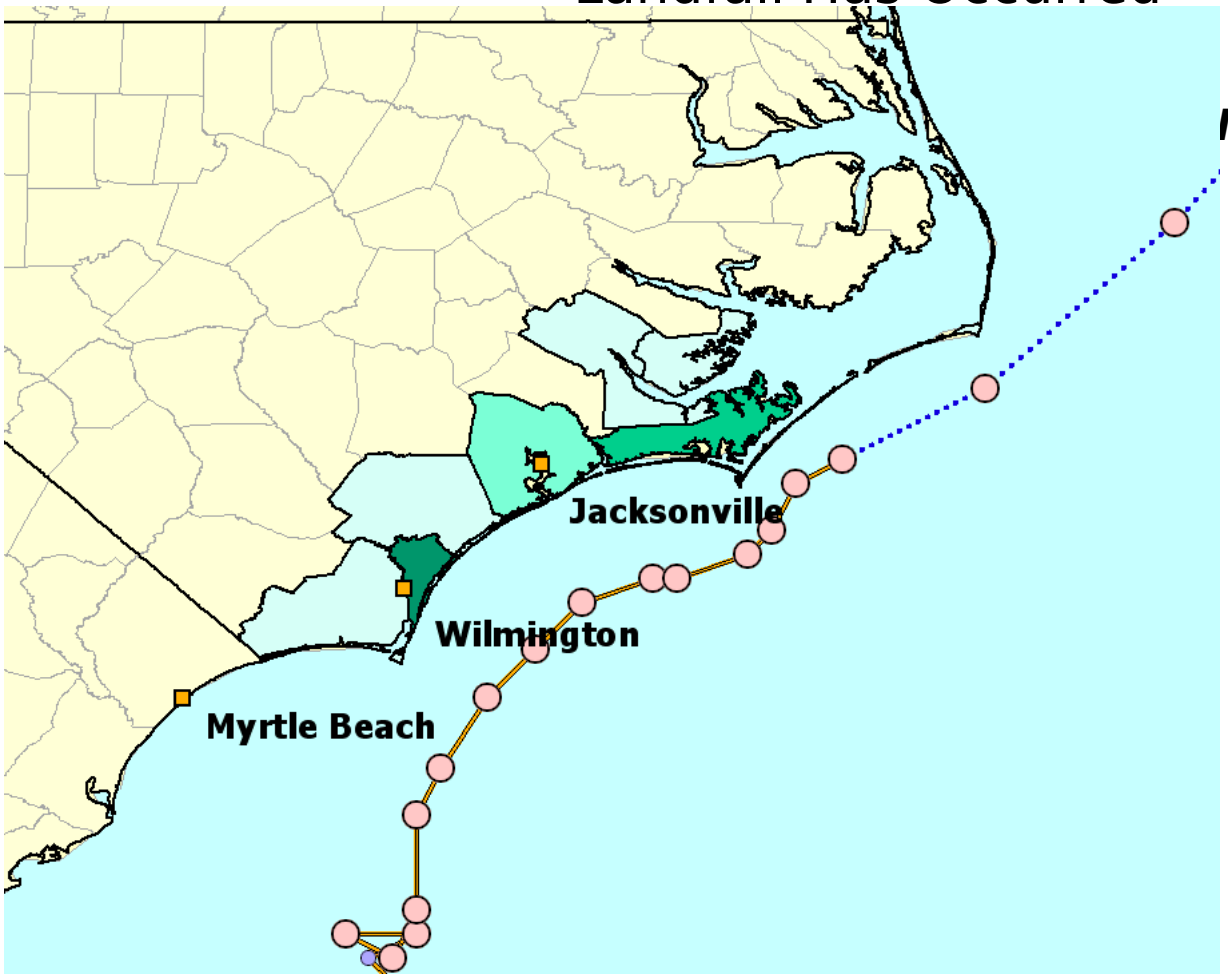
Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Ice Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Ice Model Results

North Carolina –
5 Truckloads Day One
9 Truckloads Day Two
18 Truckloads Day Three

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast. The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Ophelia Ice Model**
Generated By: Terry Siemsen, LRL 0700 EDT 09/15/2005	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 15

Hurricane Ophelia Ice Model

Landfall Has Occurred

For Official Use Only!

State	County	Pounds	Truckloads
North Carolina			
	Brunswick	36,000	1
	Carteret	186,000	5
	Craven	50,000	2
	Dare	1,000	> 1
	Hyde	1,000	> 1
	New Hanover	252,000	7
	Onslow	54,000	2
	Pamlico	1,000	> 1
	Pender	17,000	1
TOTAL		598,000	18

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Ophelia will have power outage in this area will cause a need for ice.

Details about this model may be obtained at

https://englink.usace.army.mil

or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Ice Model

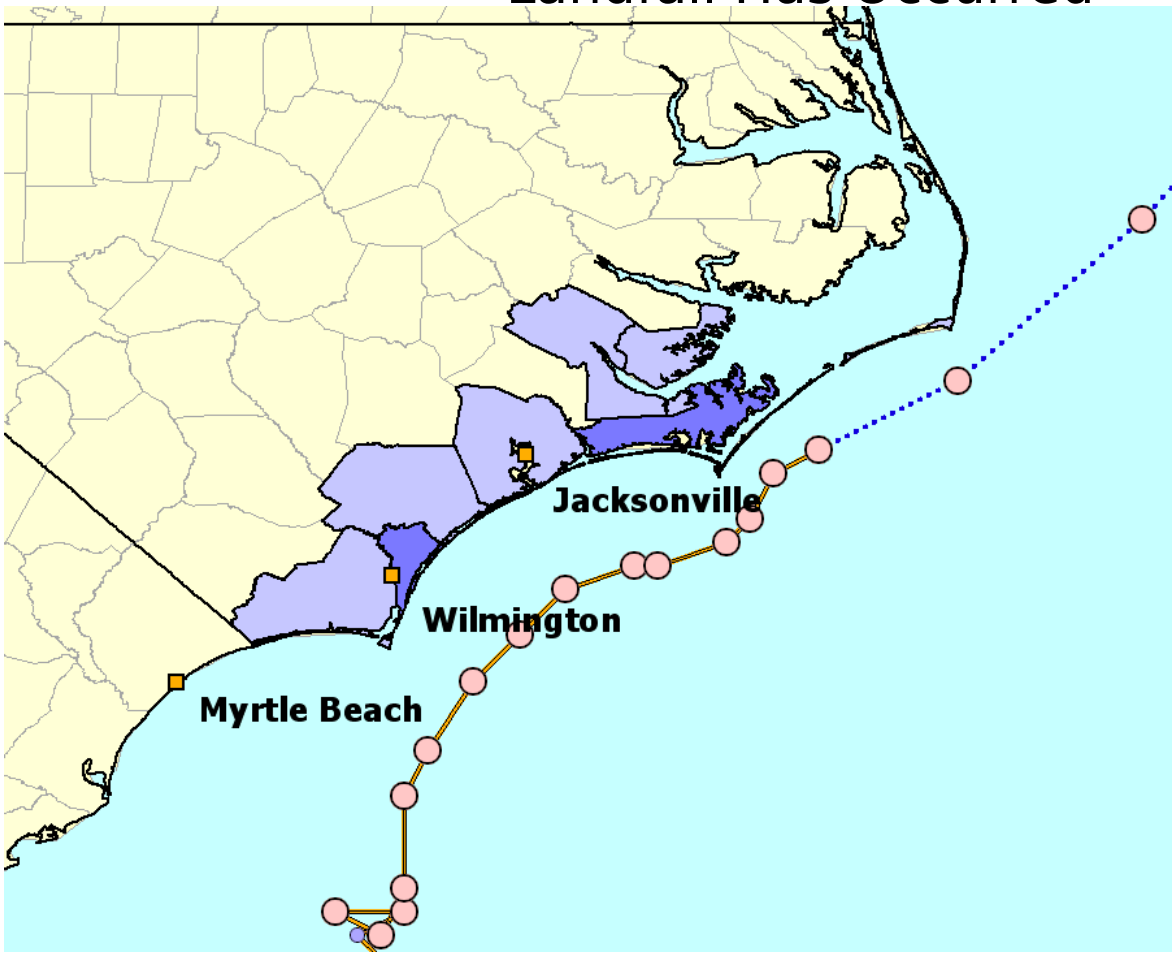
Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Water Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Water Model Results

North Carolina –
4 Truckloads Day One
8 Truckloads Day Two
15 Truckloads Day Three

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast. The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Water Model

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Water Model

Landfall Has Occurred

For Official Use Only!

State	County	Liters	Truckloads
North Carolina			
	Brunswick	13,000	1
	Carteret	70,000	4
	Craven	19,000	2
	Dare	1,000	> 1
	Hyde	1,000	> 1
	New Hanover	95,000	6
	Onslow	20,000	2
	Pamlico	1,000	> 1
	Pender	6,000	> 1
TOTAL		226,000	15

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Ophelia will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Water Model

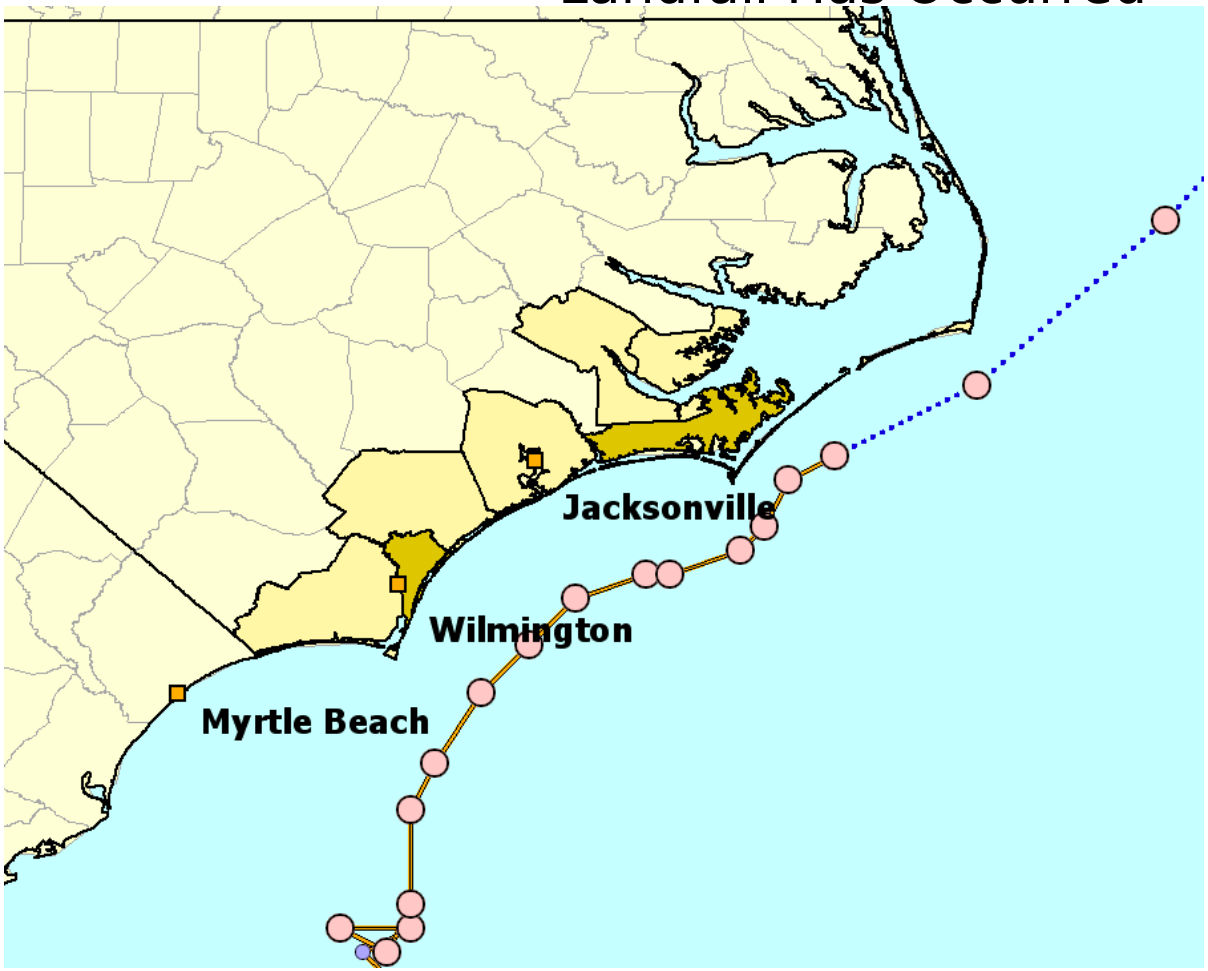
Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Population Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Population Model Results

North Carolina – 189,000 persons

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to Morehead

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Ophelia Population Model**
Generated By: Terry Siemsen, LRL 0700 EDT 09/15/2005	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 15

Hurricane Ophelia Population Model

Landfall Has Occurred

For Official Use Only!

State	County	Population per County
North Carolina		
	Brunswick	11,000
	Carteret	58,000
	Craven	16,000
	Dare	1,000
	Hyde	1,000
	New Hanover	79,000
	Onslow	17,000
	Pamlico	1,000
	Pender	5,000
TOTAL		189,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Population Model

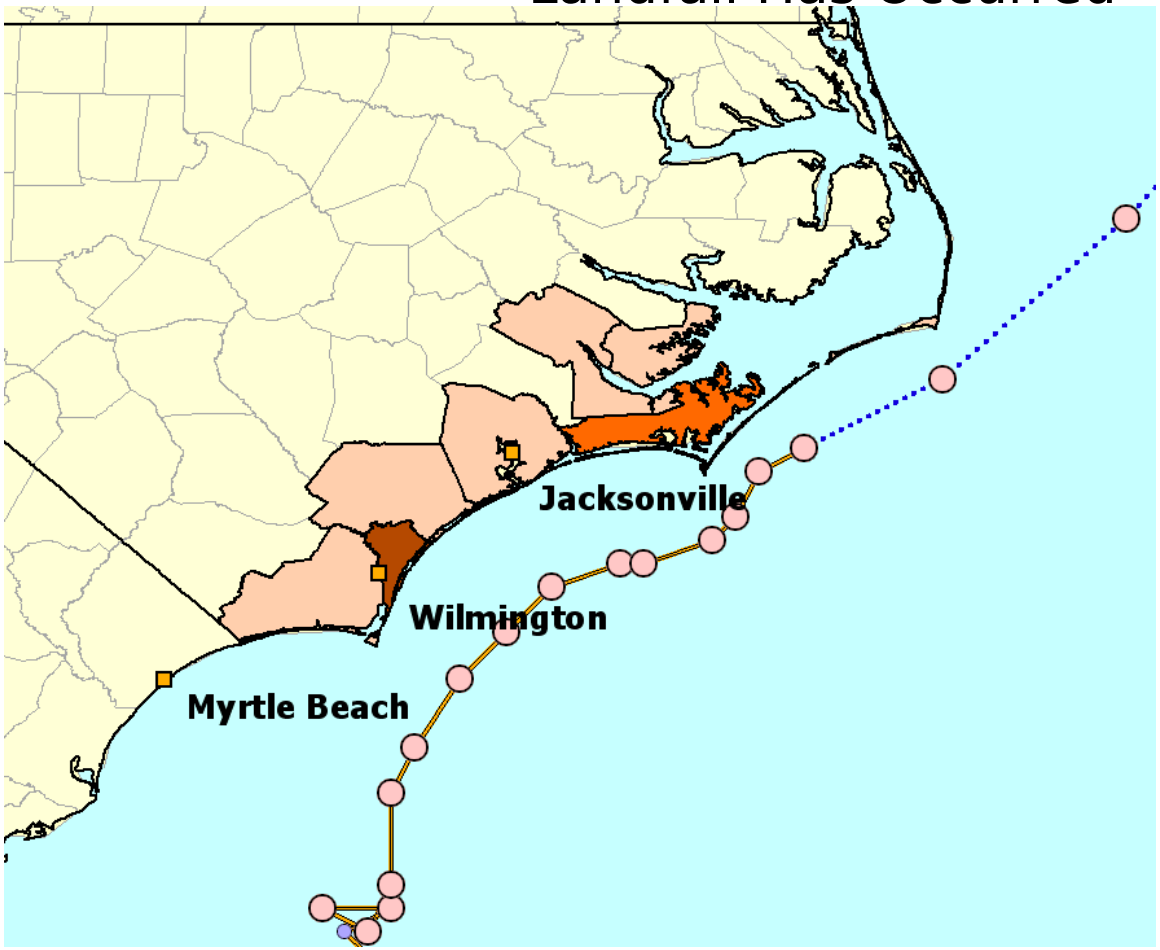
Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Households Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Households Model Results

North Carolina – 79,000 households

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Households Model

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Households Model

Landfall Has Occurred

For Official Use Only!

State	County	Households per County
North Carolina		
	Brunswick	5,000
	Carteret	25,000
	Craven	5,000
	Dare	1,000
	Hyde	1,000
	New Hanover	33,000
	Onslow	6,000
	Pamlico	1,000
	Pender	2,000
TOTAL		79,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Ophelia Temporary Roofing Model Results

For Official Use Only!

Most Probable Landfall Temporary Roofing Model Results

North Carolina – 1,900

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast. The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind area. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Roofing Model

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Temporary Roofing Model Results

Landfall Has Occurred

For Official Use Only!

State	County	Houseunits per County
North Carolina		
	Brunswick	100
	Carteret	500
	Craven	100
	Dare	100
	Hyde	100
	New Hanover	700
	Onslow	100
	Pamlico	100
	Pender	100
TOTAL		1,900

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind area. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Roofing Model

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Temporary Housing Model Results

Landfall Has Occurred

For Official Use Only!

Most Probable Landfall Temporary Housing Model Results

North Carolina – 000

Model results per county on following page

There is no expected temporary housing need due to winds

This model is based on a Category 1 storm making landfall in near proximity to Morehead City, NC.

Information provided on this page displays a Category 1 storm making landfall near Morehead City, NC. These projections are based on information from the NHC ***(0500 EDT 09/15/2005)*** forecast. The amount of temporary housing that may be required is based on no housing need in CAT 1 wind area.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ophelia Housing Model

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ophelia Temporary Housing Model Results

Landfall Has Occurred

For Official Use Only!

There is no expected temporary housing need due to winds

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas.

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US Army Corps of Engineers

Hurricane Ophelia Housing Model

Generated By:
Terry Siemsen, LRL 0700 EDT 09/15/2005

Sources:
HURREVAC
LRL-DEBRIS